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### PROGRESS REPORT

Evaluation of Skylab Imagery as an Information Service for Investigating  
Land Use and Natural Resources, (Skylab) NASA Contract: NAS 9-13364.

CA-142631

This report covers the period from March 1 - 31, 1975. During this period, final interpretations of the three test sites is largely complete with some large scale S190B interpretations left to do. Data take off and comparison to the LUNR interpretation is now beginning. A total of 1,700 square kilometers are being interpreted in the three test sites, both S190A and S190B systems. 1,600 square kilometers are being interpreted at a scale of 1:62,500 and 100 square kilometers are being interpreted at a scale of 1:24,000 with most of the information coming from the S190B color film. The 1:24,000 interpretation is in the Hudson Valley site and is being compared to 1972 photography interpreted according to the categories defined in the December progress report. In addition, both interpretations are being compared to the 1968 LUNR data. Data take off is at the hectare level, and all data is being recorded into opscan computer form for processing. A total of 30,000 cells (10,000/interpretation) will be compared for interpretation accuracy, classification accuracy and land use change. The area is a rural region that is undergoing rural/suburban sprawl in recent years. The land use mix is complex in places and should test the limitations of the S190B color film. Data take off for the 1:62,500 interpretation will be at the four hectare level with information summarized per square kilometer. Appropriate statistics will be used to determine interpretation accuracy and variations in classification accuracy.

(E75-10256) EVALUATION OF SKYLAB IMAGERY AS	N75-22868
AN INFORMATION SERVICE FOR INVESTIGATING	
LAND USE AND NATURAL RESOURCES Progress	
Report, Mar. 1975 (Cornell Univ.) 2 p HC	Unclas
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During this period, preparations were completed for the April 7 Workshop on User Needs. A series of topics included inventory processes, photo interpretation techniques and the interpretation and analysis of Skylab photography. In addition, preliminary results of the user needs survey are being presented.

It was learned that our request for S192 scanner data to test the CIE color prediction model on narrow band spectral data is being filled. The area is located around Lansing, Michigan and is similar in topography and land use to parts of New York State.

Because of delays due to transfer of the IBM 360 Series to the IBM 370 Series and to illness on the part of our programmer, the programming and data analysis phase was set back about five weeks. This resulted in a request for additional time and some additional funds. In addition, the draft of the final report will be submitted about June 1 instead of May 1 as earlier anticipated.

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